

Gagan Inder Singh

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Results-driven Cloud Technology developer with over 7 years of experience delivering solutions for cloud infrastructure migration and management. Experienced in working with various companies and technology stacks, successfully supporting applications from legacy to cloud platforms. Adept at defining technical and client requirements, building tools using CI/CD pipelines to automate migration processes, and facilitating rapid and efficient infrastructure deployment.

Technical Skills and Tools

| | | | |
|--------------------|----------------|---------------|---------------|
| ✓ DevOps | ✓ Docker | ✓ Openshift | ✓ Kubernetes |
| ✓ Python Scripting | ✓ Terraform | ✓ Terragrunt | ✓ Unix/ Linux |
| ✓ Pycharm | ✓ GitLab | ✓ BitBucket | ✓ Eclipse |
| ✓ CloudBees | ✓ Spinnaker | ✓ Sublime | ✓ Jenkins |
| ✓ AWS | ✓ Bash | ✓ Git Bash | ✓ Java |
| ✓ Ansible | ✓ Shell Script | ✓ Vmware ESXI | ✓ Nagios |
| ✓ Portainer | ✓ Docker Swarm | ✓ Paramiko | ✓ Jinja2 |

Certificates

| | | |
|---------------------------|--|--|
| ✓ AWS Developer Associate | ✓ AWS Solution Architect- Associate | ✓ RedHat Accredited Container Platform Delivery Analysis |
| ✓ Terraform Associate | ✓ AWS Solution Architect- Professional | |

Experience

AlertDriving (*Senior DevOps Engineer*)

February 2023- Present

Working as a senior DevOps engineer, handling all the CI CD operations within the firm including automating infrastructure, implementing continuous integration and deployment, monitoring performance, and ensuring security and compliance of around 400+ Vm's on the VMware Esxi environment . Was responsible for creating solutions to set up monitoring tools such as Nagios with the help of Jinja and python utilities from scratch to end. Playing a major role in migrating to the cloud from legacy.

Technologies Used: CI/CD, GitLab CI, ArgoCD, Docker, Docker Swarm, BuildX, Portainer, VMware, VMware ESXi, Percona DB Cluster, Nagios, Clonezilla, LVM, DD, Chroot, Paramiko, Ansible, Jinja, Packer, Terraform, Azure, AWS, Vulture

Responsibilities

- Write, modify, integrate, and test software code while leveraging deep expertise in Linux administration, VMware ESXi, and LVM to ensure smooth operation and management of server environments. Manage containerized workloads using Docker, Docker Swarm, Portainer, and Docker BuildX to support scalable and reliable deployments.
- Maintain and upgrade existing computer programs and infrastructure, ensuring high availability and performance through implementation and administration of Percona DB Cluster environments. Utilize LVM for efficient storage management and Clonezilla for backup and disaster recovery operations.
- Design and maintain CI/CD pipelines to automate application delivery, streamline deployments, and improve release reliability across AWS and Azure cloud environments.
- Identify, analyze, and communicate technical problems, processes, and solutions by leveraging Nagios for proactive infrastructure and application monitoring. Perform advanced troubleshooting, forensic analysis, and system recovery using DD and Chroot utilities.
- Prepare comprehensive technical documentation, operational manuals, and maintenance procedures while implementing infrastructure automation and configuration management using Ansible, Jinja templating, Terraform, and Packer to standardize deployments and optimize provisioning workflows.
- Assist in gathering and documenting user requirements and developing logical and physical specifications. Automate secure remote administration tasks using Paramiko and develop dynamic deployment configurations with Jinja to improve operational consistency and efficiency.
- Lead and coordinate teams of developers and system administrators, utilizing Docker Swarm orchestration, VMware ESXi virtualization, and cloud infrastructure services on AWS and Azure to manage scalable and highly available environments.
- Research, evaluate, and implement a wide range of software and infrastructure solutions, applying expertise in cloud platforms, database clustering, monitoring systems, automation frameworks, and security-focused Linux administration to support organizational goals.

Anetcorp India Pvt. Ltd, Chandigarh (*Senior DevOps Engineer*) October 2022 – January 2023

Worked in the DevOps team to create CI/CD pipelines and maintain them. Being part of the automation and enhancement of the process for various utilities. Have worked on Jira automation. Creating an automation tool for backing up the GitHub repos. Created python scripts for different automation for cache creating jobs for AEM dispatchers . Worked with shell scripts to make all processes smooth for day to day operations .

Projects:

US Biotechnology Corporation –Senior DevOps Engineer - October 2022 – January 2023

Technologies used: Jira, Python, Jenkins, Groovy, shell, Confluence, Linux, GitHub, Aws Git, Adobe AEM

Handle all the operations of the DevOps team from pipelines to managing the access to the users on Jenkins and other tools. Have been managing all the work related to the python to automate some of the processes to make delivery of projects to be smooth and swift.

Responsibilities:

- Lead and execute the deployment, management, securing, and patching of enterprise applications on a large scale in the cloud, with a strong preference for AWS. This encompasses the entire lifecycle of software code, from writing, modifying, integrating, to testing, ensuring high standards of quality and reliability.
- Maintain and enhance existing computer programs by making modifications as required, leveraging AWS CodeDeploy, CodeBuild, Jenkins, and Sonarqube to streamline continuous integration and delivery processes.
- Identify and communicate technical problems, processes, and solutions, applying a deep understanding of immutable infrastructure and infrastructure as code concepts. This includes active participation in capacity planning, resource provisioning, and conducting thorough incident management and root cause analysis to maintain system integrity.
- Prepare comprehensive reports, manuals, and other documentation on the status, operation, and maintenance of software, employing modern monitoring and analytics tools like Nagios/DataDog and logging tools like LogStash/SumoLogic to ensure operational excellence and inform stakeholders.
- Assist in the collection and documentation of user requirements, and in the development of logical and physical specifications, ensuring that cloud services such as EC2, S3, IAM, Route53, RDS, VPC, NAT/IG Gateway, Lambda, Load Balancers, CloudWatch, and API Gateway are optimally utilized to meet business needs.
- Lead and coordinate teams of computer programmers in end-to-end DevOps projects that encompass both applications and infrastructure, facilitating the management of multi-cluster container environments using AWS ECS with EC2 and Fargate. This includes service discovery using Route53 to ensure seamless scalability and performance.
- Research and evaluate a variety of software products, leveraging expertise in AWS cloud services and DevOps tools to enhance system performance, security, and reliability, ensuring that the organization's software infrastructure is cutting-edge and effective.

Accenture, Gurugram (*Senior Software Engineer*)

December 2016 - September 2022

Design, build and configure applications to meet business process and application requirements.

Projects:

One of the largest Insurance Solutions in US —Senior Software Engineer Feb 2022 – September 2022

Technologies used: CloudBees Jenkins, Docker, Git, Python, shell script, Rally, Confluence, Linux, GitHub, AWS, Terraform

Worked in the DevOps team to create CI/CD tools using cloudbees Jenkins, and terraform pipelines to create pipelines for continuous development and integration for code and the building Aws infrastructures. Was an integral part of the automation and development team to create the strategies for the automation and enhancements of the scripts to make the whole process more robust. Worked on the automation of the database deployment using pipelines.

Responsibilities:

- Specialized in fixing and enhancing the existing pipelines and terraform scripts to seamlessly build the infrastructure.
- Creating and modifying the triggers for the Webhooks.
- Creating the terraform Scripts to build infrastructure.

One of the largest Banking solution — Software Engineer

May 2020 - Feb 2022

Technologies used : Kubernetes, Jenkins, Docker, Git, Python, shell script, JIRA, Confluence, Linux, Gitlab, AWS, CloudBees, Spinnaker, Terraform and Terragrunt

Worked in the DevOps team to create CI/CD tools using Jenkins, spinnaker and terraform to create pipelines for continuous development and integration, before delivering the solutions to the customer. Created complex python scripts to ensure that the product meets the client specifications and requirements.

Responsibilities:

- Specialized in fixing and enhancing of the existing pipelines and terraform scripts to seamlessly build the infrastructure, saving a great amount of effort and time
- Writing SOPs and tool documentations for the better usage and understanding of the tools and the scripts
- Working on the POC's for the client to help them understand and test the features, which include creation of eks clusters, pods, services and applying rules to insure the security and confidentiality
- Building of cloudbees Jenkins pipeline for CI from scratch
- Building of CD pipeline using Spinnaker with integration of CI cloudbees pipeline

One of the leading Travel Technology Company — Software Engineer

Jan 2019 -May 2020

Technologies used : AWS, RedHat OpenShift, Jenkins, Vagrant, Docker, Git, Python, shell script, JIRA, Bitbucket, Confluence, Linux and other client tools.

As a dedicated point of contact between solution teams and application teams during the migration from legacy to cloud environment, performed the analysis, identified gaps, documented procedures, collected feedback, and ensured consistency of the approach across all the applications of the customer.

Responsibilities:

- Worked closely with software development and testing team members to design and develop robust solutions for functionality, scalability and performance
- Communicated directly with project stakeholders, providing timely updates on project advancement and ensuring timely delivery
- Developed Ansible roles in order to automate the application build & deployment within docker containers.
- Developed Dockerfile & Docker compose files in order to dockerize the application.
- Built pipeline scripts and created pipeline jobs in order to integrate and automate the CI/CD process.
- Worked with Code Quality Analysis Tool like SonarQube, Repository manager
- Tools like Version control tools like GitHub, Bitbucket and integrating them with Jenkins.
- Development & deployment of applications in Kubernetes cluster which includes using of objects like pods, deployments, services, ingress, persistent Volumes etc.
- Worked with AWS cloud to create, design and manage the infrastructure which follow well architected framework principles and using various services including EC2, LB, Route53, S3
- Wrote code in Python using both functional & object oriented approach for developing tools and integrations to increase system efficiency and performance time
- Creation of complex scripts in Bash in order to automate minor/major tasks in the environment.

Technologies used: Java EE, java mvc spring MySQL, UNIX, Client private cloud services

Ensured that the application was up and running and meeting SLAs. Worked on call escalation for any major issues with the service by taking ownership to troubleshoot the outage and also providing root cause analysis of the problems.

Responsibilities:

- Provided application support by continuous interaction with the client by using tools like Service now.
- Provided Application and Deployment support to meet SLAs
- Used excellent Analytical skills to find the root cause so that system can run smoothly
- Constructed a weekly ETL report for business analysis.
- Maintained (200+ servers) Linux/UNIX in production environments.
- Wrote Python and Bash scripts for daily maintenance activities, including application initial troubleshooting.
- Using Introscope to monitor the application, infrastructure & creation of custom shell scripts to improve monitoring
- Tested troubleshooting methods, devised innovative solutions, and documented resolutions for inclusion in the knowledge base for support team use
- Identified problems and recommended new processes to improve efficiency

Awards

★ ***Accenture Celebrates Excellence Award***

August 2019

★ ***Accenture Ace Award***

November 2019

Education

MCA, Thapar University, Patiala
2016

Jun 2013 - May

BCA, MIM Institute of Technology, Patiala
2013

Jun 2010 - May

Higher Secondary, GNFPS, Patiala
2010

April 2009 - March

Secondary, GNFPS, Patiala
2008

April 2007 - March

Languages

English, Hindi, Punjabi